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Contact: Marie Darling

Tele: (603) 646-4292

Recycled Glass Cullet Technology Available in "Tool Kit"

HANOVER, N.H.— Recently researchers at the U.S. Army Cold Regions Research and Engineering Laboratory (CRREL) have been making progress in the utilization of yet another recycled product for the use in roadways, glass cullet.

The results of work by Ms. Karen Henry, a CRREL Research Civil Engineer, and Ms. Susan Hunnewell Morin (former CRREL Intern, now a civil engineer with Tate and Howard in Westborough, Mass.) for the New Hampshire DOT to determine the frost susceptibility of crushed recycled glass cullet has been included in a new guide for the use of post-consumer glass as a construction aggregate. The publication is entitled "A tool kit for the use of post-consumer glass as a construction aggregate," published by the Clean Washington Center, A division of Pacific NorthWest Economic Region, 999 Third Ave., Suite 1060, Seattle, WA 98104 (http://www.cwc.org). Henry and Morin determined that typical glass cullet has negligible to low frost susceptibility. Tests conducted under the auspices of the Clean Washington Center shows that the cullet is a nearly ideal construction aggregate with regard to physical, mechanical, chemical and environmental properties (it is similar to pea gravel). Now, complete information is available to project owners, designers, contractors, material suppliers and specifying and permitting agencies in the form of the "tool kit" publication. It may be economical for large military facilities to consider crushing their own recycled glass for use as a construction aggregate.

For CRREL's contribution to the effort see: Henry, K.S. and S. H. Morin (1997) "The frost susceptibility of crushed glass used as a construction aggregate," Technical Note, American Society of Civil Engineers Journal of Cold Regions Engineering, Vol. 11, No. 4, pp. 326-333.

More information may be obtained by contacting Ms. Marie Darling at (603) 646-4292 or email: mdarling@crrel.usace.army.mil.

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